



FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. I-2-0203.4US	SERIAL NO. 10/085,187
	APPLICANT Joseph A. Kwak	
	FILING DATE February 27, 2002	GROUP 2662

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,912,705	03/1990	Paneth et al.			
		5,101,406	03/1992	Messenger			
		5,280,498	01/1994	Tymes et al.			
		5,345,439	09/1994	Marston			
		5,345,600	09/1994	Davidson			
		5,351,016	09/1994	Dent			
		5,544,196	08/1996	Tiedemann, Jr. et al.			
		5,570,369	10/1996	Jokinen			
		5,648,969	07/1997	Pasternak et al.			
		5,657,325	08/1997	Lou et al.			
		5,715,260	02/1998	Black et al.			
		5,729,557	03/1998	Gardner et al.			
		5,828,677	10/1998	Sayeed et al.			
		5,838,267	11/1998	Wang et al.			
		5,918,156	06/1999	Tanabe			
		5,946,320	08/1999	Decker			
		5,954,839	09/1999	Park et al. <sup>2</sup>			
		5,954,839	09/1999	Park et al. <sup>17</sup>			
		5,956,624	09/1999	Hunsinger et al.			
		5,982,760	11/1999	Chen			
		5,983,382	11/1999	Pauls			
		5,983,383	11/1999	Wolf			
		5,983,384	11/1999	Ross			
		6,021,123	02/2000	Mimura			
		6,021,124	02/2000	Haartsen <sup>3</sup>			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,049,549	04/2000	Ganz et al.			
		6,064,692	05/2000	Chow			
		6,128,276	10/2000	Agee			
		6,130,918	10/2000	Humphrey et al.			
		6,134,694	10/2000	Uebayashi et al.			
		6,138,260	10/2000	Ketseoglou			
		6,145,108	11/2000	Ketseoglou			
		6,154,489	11/2000	Kleider et al.			
		6,189,123	02/2001	Anders Nystrom et al.			
		6,208,663	03/2001	Schramm et al. <sup>4</sup>			
		6,212,240	04/2001	Scheibel, Jr. et al.			
		6,212,659	04/2001	Zehavi			
		6,226,520	05/2001	Jeoung <sup>13</sup>			
		6,233,711	05/2001	Murayama et al.			
		6,262,994	07/2001	Dirschedl et al.			
		6,272,183	08/2001	Berens et al.			
		6,275,488	08/2001	Cudak et al.			
		6,289,003	09/2001	Raitola et al.			
		6,308,294	10/2001	Ghosh et al.			
		6,317,418	11/2001	Raitola et al.			
		6,359,877	03/2002	Rathonyi et al.			
		6,366,601	04/2002	Ghosh et al.			
		6,370,669	04/2002	Eroz et al.			
		6,421,803	07/2002	Persson et al.			
		6,449,246	09/2002	Barton et al.			
		6,470,391	10/2002	Takamoto et al.			

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		6,473,399	10/2002	Johansson et al. <sup>11</sup>			
		6,519,065	02/2003	Colbourne et al.			
		6,522,650	02/2003	Yonge et al.			
		6,529,561	03/2003	Sipola			
		6,587,985	07/2003	Fukushima et al.			
		6,601,207	07/2003	Vantinen <sup>5</sup>			
		6,621,807	09/2003	Jung et al. <sup>6</sup>			
		6,647,076	11/2003	Schenk et al.			
		6,671,266	12/2003	Moon et al. <sup>7</sup>			
		6,735,180	05/2004	Malkamaki et al.			
		6,760,860	07/2004	Fong et al.			
		6,831,910	12/2004	Moon et al. <sup>8</sup>			
		6,895,010	05/2005	Chang et al. <sup>9</sup>			
		6,907,005	06/2005	Dahlman et al.			
		6,931,569	08/2005	Fong et al.			
		6,956,855	10/2005	Chang <sup>10</sup>			
		7,164,654	01/2007	Hunzinger et al.			
		2002/0034182	02/2002	Mallory			
		2002/0037058	03/2002	Birru			
		2002/0064167	05/2002	Khan et al.			
		2002/0191544	12/2002	Cheng et al.			
		2003/0039226	02/2003	Kwak			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	*	2352696	05/2001	CA				

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							TRANSLATION
		1132772	01/2004	CN			
		0797327	09/1997	EP			
		0859475	08/1998	EP			
		<del>07-336331</del>	<del>12/1995</del>	<del>JP</del>			X**
		09-298575	11/1997	JP			X**
		<del>00-247200</del>	<del>09/1997</del>	<del>JP</del>			X**
		<del>2000-188600</del>	<del>07/2000</del>	<del>JP</del>			X**
		01-141431	06/1989	JP			X**
		09-116597	05/1997	JP			X**
		<del>2001-103034</del>	<del>04/2001</del>	<del>JP</del>			X**
		11-046217	02/1999	JP			X**
		2000-004196	01/2000	JP			X**
		2003/0004618	01/2003	KR			x
		2179370	02/2002	RU			
		2195768	12/2002	RU			
		2221338	01/2004	RU			
		2221339	01/2004	RU			
		2235432	08/2004	RU			
		2282310	10/2003	RU			
		2294055	01/2006	RU			
		97118086	07/1999	RU			
		2001126714	07/2003	RU			
	*	<del>431084</del>	<del>04/2001</del>	<del>TW-19</del>			
	*	00/10298	02/2000	WO			
		99/12303	03/1999	WO			
		99/09698	02/1999	WO			

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							TRANSLATION
		97/37459	10/1997	WO <sup>1</sup>			
		98/31106	07/1998	WO <sup>14</sup>			
		01/01624	01/2001	WO <sup>15</sup>			
		02/33877	04/2002	WO <sup>16</sup>			
		99/66675	12/1999	WO <sup>12</sup>			
		2004/038990	06/2004	WO <sup>18</sup>			

## OTHER DOCUMENTS

EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	"Hybrid ARQ Methods for FDD in Release in 2000," TSG-RAN Working Group 1 Meeting #14, Oulu, Finland, (July 4-7, 2000).
	3GPP, "Physical Layer Aspects of UTRA High Speed Downlink Packet Access," 3GPP TR 25.848 V4.0.0 (2001-03), pp. 1-89.
	ROHLING ET AL. "Performance Comparison of Different Multiple Access Schemes for the Downlink of an OFDM Communication System", 1997 IEEE 47 <sup>th</sup> Vehicular Technology Conference, May 1997, vol. 3, p. 1368, (May 1997).
	3GPP, 3 <sup>rd</sup> Generation Partnership Project; Technical Specification Group Radio Access Network; Physical layer aspects of UTRA High Speed Downlink Packet Access (Release 4), TR 25.848 V4.0.0 (2001-03), p. 50.
	ERIKKSON ET AL. "Comparison of Link Quality Control Strategies for Packet Data Services in EDGE." Vehicular Technology Conference, 1999 IEEE, pp. 938-942, (May 16, 1999).
	SAYEED, "Throughput Analysis and Design of Fixed and Adaptive ARQ/Diversity Systems for Slow Fading Channels." Global Telecommunications Conference, 1998, pp. 3686-3691 (November 8, 1998).
	SHIOZAKI ET AL. "A Hybrid ARQ Scheme With Adaptive Forward Error Correction for Satellite Communications." IEEE Transactions on Communications, pp. 482-484 (April 1, 1991).
	BAKHTIYARI ET AL. "Practical Implementation of a Mobile Data Link Protocol With A Type II Hybrid ARQ Scheme and Code Combining," Personal Communication – Freedom Through Wireless Technology. Proceedings of the Vehicular Technology Conference, pp. 774-777 (May 18, 1993).

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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	KIM ET AL. "On Hybrid ARQ of Reverse Channel in 1xEV-DV", Montreal Canada, C50-20010709-019 SAMSUNG_Reverse Channel HARQ.doc, (July 10, 2001).
	3GPP, 3 <sup>rd</sup> Generation Partnership Project; Technical Specification Group Radio Access Network; Report on Hybrid ARQ Type II/III (Release 2000), 3GPP TR 25.835 V1.0.0 (September 2000).
	STALLINGS, "Networking Standards – A Guide to OSI, ISDN, LAN, and MAN Standards", p. 37, (February 1993).
	WANG ET AL. "Error Control and Concealment for Video Communication --- A Review 1".

\*\* Abstract Only

<sup>1</sup> corresponds to JP 2000-507777; <sup>2</sup> corresponds to RU 2195768; <sup>3</sup> corresponds to CN 1275279; <sup>4</sup> corresponds to CN 1277766;  
<sup>5</sup> corresponds to RU 2001126714; <sup>6</sup> corresponds to RU 2195089; <sup>7</sup> corresponds to RU 2179370; <sup>8</sup> corresponds to RU 2210864;  
<sup>9</sup> corresponds to RU 2221338 ; <sup>10</sup> corresponds to RU 2221339; <sup>11</sup> corresponds to RU 2235432; <sup>12</sup> corresponds to CN 1275299;  
<sup>13</sup> corresponds to RU 2138125; <sup>14</sup> corresponds to RU 2234806; <sup>15</sup> corresponds to RU 2216868; <sup>16</sup> corresponds to RU 2236091;  
<sup>17</sup> corresponds to RU 2294055; <sup>18</sup> corresponds to RU 2282310; <sup>19</sup> corresponds to US 6,181,683

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